DISTRICT |

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410-1693

811 South First St., Artesia, NM 88210-2835

OIL CONSERVATION DIVISION 2040 S. Pacheco Santa Fe, New Maxico 87505-6429

State of New Mexico
Energy, Minerals and Natural Resources Department

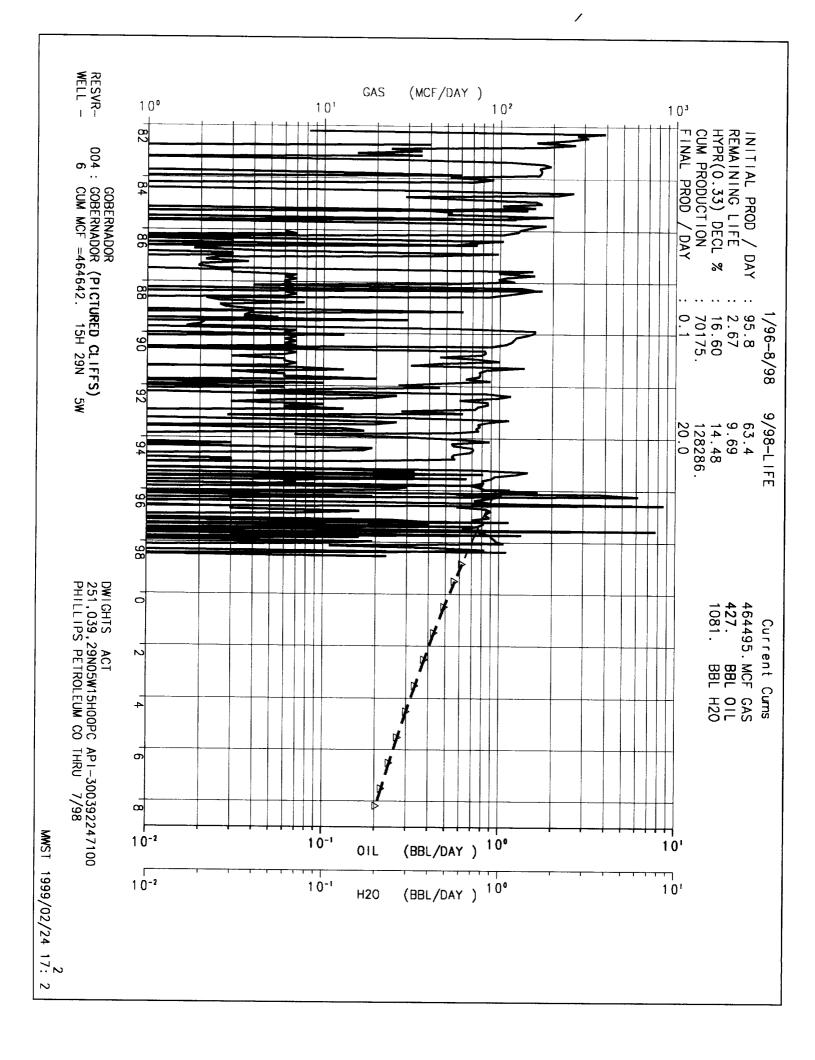
Form C-107-A New 3-12-96

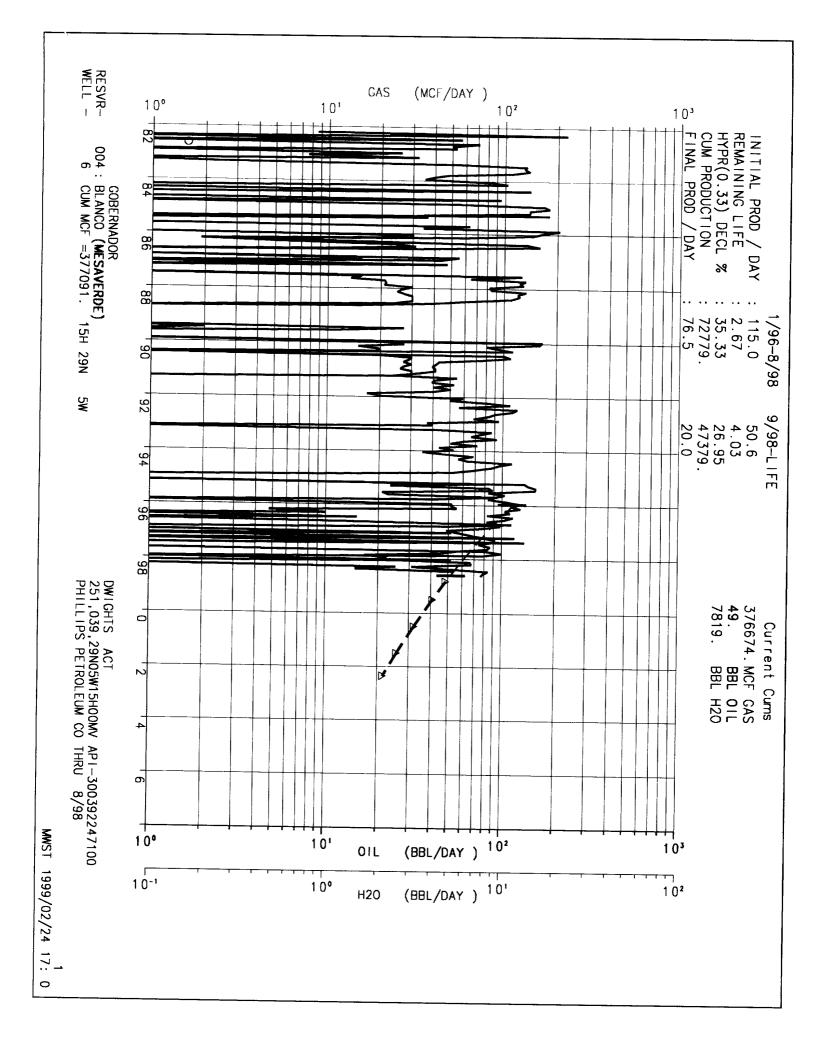
APPROVAL PROCESS:

X Administrative __Hearing

APPLICATION FOR DOWNHOLE COMMINGLING EXISTING WELLBORE X YES _ NO

Phillips Petroleum		Hwy. 64, Farmingto	on, NM 87401
Gobernador #6	Н	Sec. 15, 29N, 5W	Rio Arriba
	Well No. Unit Li	tr Sec - Twp - Rge	County
OGRID NO. 017654 Property Con	de 009255 API NO. 30	0-039-22471 Spacing Federal	Unit Lease Types: (check 1 or more) X , State, (and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper Zone	intermediate Zone	Lower Zone
Pool Name and Pool Code	77440 Gobernador PC		72319
Top and Bottom of Pay Section (Perforations)	3602' - 3773'	DECENVEN	Blanco MV 5594' - 6016'
3. Type of production (Oil or Gas)	Gas	III FEB 2 8 1989	
Method of Production (Flowing or Artificial Lift)	Flowing	OUL COSE DIV	Gas
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones:	a. (Current) 540 psi (est		Flowing a. 800 psi (est.)
Estimated Or Measured Original	1288 psi (est.)	b.	b. 1234 psi (est.)
Oil Gravity (*API) or Gas BTU Content 7. Producing or Shut-In?	1145		1083
	SI		Producing
Production Marginal? (yes or no)	Yes		Yes
If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: 9/98 Rates: 7 mcfd	Date: Rates:	Date: Rates;
 If Producing, give date andoil/gas/ water rates of recent test (within 60 days) 	Date: Rates:	Date: Rates:	Date: 12/31/98 Rates: 36 mcfd 3 bwpd
Fixed Percentage Allocation Formula -% for each zone	Oii: Gas: %	Oil: Gas: %	Oil: Gas: %
If allocation formula is based usubmit attachments with supp	pon something other than curre	ent or past production, as is by	
If not, have all working, overriding, an If not, have all working, overridate Have all offset operators been at 11. Will cross-flow occur? flowed production be recovered.	d royalty interests identical in a ding, and royalty interests beer given written notice of the propesXNoIf yes, are fluids conditions and will the allocation formula.	all commingled zones? In notified by certified mail? It is a commingling? It is a commingling? It is a commingling of the commi	Yes X No X Yes No X Yes No No tot be damaged, will any cross
 Are all produced fluids from all Will the value of production be 		with each other? XY	es No
4. If this well is on, or communiti United States Bureau of Land 5. NMOCD Reference Cases for F		Yes X No (If Yes	s, attach explanation) Public Lands or the
5. NMOCD Reference Cases for F	Rule 303(D) Exceptions:	ORDER NO(S). R-1077	162 140
6. ATTACHMENTS: C-102 for each zone Production curve for For zones with no p Data to support allo Notification list of all	a to be commingled showing its reach zone for at least one yes roduction history, estimated procured to the control of the con	s spacing unit and acreage ded ar. (If not available, attach exp oduction rates and supporting	ication. Janation.)
hereby certify that the information	n above is true and complete to	the best of my knowledge an	d belief.
SIGNATURE Mark Ston	• //	TITLE Reservoir Engr	
YPE OR PRINT NAMEMar	A 04 - 3 3	TELEPHONE NO. (
			1 000-0400





Gobernador #6 Pictured Cliffs Forecast

100 MCFD
0.33
10 %

	Month	Monthly MCF
1999	Mar	3,087
	Apr	2,963
	May	3,036
	Jun	2,914
	Jul	2,986
	Aug	2,961
	Sep	2,842
	Oct	2,913
	Nov	2,796
	Dec	2,866
2000	Jan	2,842
	Feb	2,547
	Mar	2,798
	Apr	2,686
	May	2,753
	Jun	2,643
	Jul	2,710
	Aug	2,688

An initial rate of 100 MCFD is anticipated after workover and commingling downhole with the Mesaerde.



February 24, 1999

New Mexico Oil & Gas Conservation Div. 2040 South Pacheco Santa Fe, New Mexico 87505-6429

Downhole Commingling Allocation Method on the Gobernador #6

Dear Sirs:

Phillips is proposing to utilize the subtraction method on the subject well for approximately six months after actual commingling occurs. After the six month period we will convert to the ratio method as indicated in our commingling application. We believe this will be a more accurate method of allocating production considering that the Gobernador Picture Cliffs interval should be stabilized already and then new production from the Lewis Shale interval will not be stabilized for several months. Further, we believe that commingling these zones downhole will provide an uplift to both reservoirs. This will bring the Pictured Cliffs production up from 80 mcf to 100 mcfd.

Pictured Cliffs Forecast

March 1999	3,087	August 1999	2,961
April 1999	2,963	September 1999	,
May 1999	3,036	October 1999	2,913
June 1999	2,914	November 1999	2,796
July 1999	2,986	December 1999	,

For example, if the total volume for April 1999 were 5,963 mcf, then the Pictured Cliffs would be allocated 2,963 mcf and the Mesaverde 3,000 mcf. And subsequently, the Pictured Cliffs would be allocated (2,963/5,963) or 49% and the Mesaverde would be (3,000/5963) or 51%.

Sincerely,

PHILLIPS PETROLEUM COMPANY

Mark W. Stodola Reservoir Engineer

MS/pc

cc:

OCD – Aztec BLM- Farmington

NM Commissioner of Public Lands - Santa Fe

Production Allocation Methodology

- ♦ Adding New Zone to Existing Zone Initially Subtraction Method followed by Fixed Allocation Method
 - Subtraction Method (+/- 1st 12 months)
 - Forecast production rate by month for existing zone utilizing established decline curve for zone
 - Subtract forecasted rate from commingled rate to define new zone rate
 - Utilize subtraction method for +/- 12 months until new zone rate stabilizes, then utilize fixed allocation method with current rates
 - Fixed Allocation Method (after Subtraction Method)
 - Utilize forecasted rate from established decline curve for lower zone
 - Calculate upper zone rate by subtracting lower zone rate from commingled rate
 - Lower zone allocation = <u>Lower zone rate</u> Commingled rate
 - Upper zone allocation = (Commingled rate - Lower zone rate) / Commingled rate

GOBERNADOR #6 WI/ORRI/NRI OWNERS MAILING LIST

REBECCA ANN REESE WARD

WILLIAMS PRODUCTION COMPANY **BURLINGTON RESOURCES OIL & GAS COMPANY ACOMA OIL CORPORATION** TIM B ALLISON **GEORGIA F ANDERSON LIVING TRUST** AMIRA F BOISSON MARIAN F. EARP MINFRAI TRUST ~FRANCES MEYER, TRUSTEE FRANK B GERSBACH AND MAE B. GERSBACH **HOMER F JOHNSON JESSIE L. JOHNSON** VIRGINIA JOHNSON MCALLEN NATIONAL BANK, INDP EXC O/E/O ~JEWEL N. LANIER **RUTH E MCBRIDE** CHARLES W MCCARTY TRUST, NATIONSBANK TRUST OIL & GAS ACCOUNTING JENNY POEGGEL AND MARY B. POEGGEL C/O C. H. DUPLEIX DOROTHY E. DENMAN **DORATHEA S. BARNES GUADALUPE B. MCCARTY DEPARTMENT OF INTERIOR-MMS** ~ROYALTY MANAGEMENT PROGRAM **AMOCO PRODUCTION COMPANY REECE B. ANDERSON JERRY J. ANDREW PAMELA GRAY BALDWIN** ROBERT E. BEAMON **ASHLEY BRACKEN & SUSAN BRACKEN** JEREMY S. DAVIS WATERS S. DAVIS III **BARBARA REESE BINGES** TED E. DUFF TRUSTEE OF ~THE T. E. DUFF TRUST DUFF-LEACH FAMILY TRUST JUDITH DIANNE DUFF LEACH, TRUSTEE C/O J DIANNE DUFF LEACH **GAIL A DURHAM** ESTATE OF ALBERT E. FAGAN DONALD E. FAGAN INDPNDNT EXEC DAVID H. GRAY CHASE BANK OF TEXAS, N.A. **AGENT & ATTORNEY-IN-FACT** TRUST MINERALS SEC-#1049309 JOHN L. GRAY CHASE BANK OF TEXAS, N.A. **AGENT & ATTORNEY-IN-FACT** TRUST MINERALS SEC - 1049310 **DAVID HENDERSON** MARY DOLL INGRAM **RICHARD A JENNINGS GARY ROBERT JOHNSON PAULINE P JOHNSON** NATIONSBANK, N.A. ~TRUSTEE FOR EULA MAY JOHNSTON **ESTATE OF JAMES J. JOHNSTON** V. A. JOHNSTON FAMILY TRUST, KATHERINE PREWITT & MICHAEL A CHESSER, TRUST **GLORIA WYNNE LANKFORD** ESTATE OF PATTIE ANN BEAMON LUNDELL ROBERT WALTER LUNDELL CYNTHIA GRAY MILANI CHASE BANK OF TEXAS, N.A. **AGENT & ATTORNEY-IN-FACT** TRUST MINERALS SEC-#1049313 THE NORDAN TRUST PEARL NEUGENT NORDAN ESTATE, MARIAN NORDAN HARWELL HARRY D. PROTER TRUST C/O TRUST OIL & GAS **DAVID ELBERT REESE ELIZABETH GOODWIN REESE** CATHARINE GRAY REMENICK CHASE BANK OF TEXAS, N.A. & A/I/F, TRUST MINERALS SECTION-#1049313 ROGERS GIBBARD TRUST C/O SUSAN ROGERS EVELAND DAVID WALKER SMITH MARJORIE FISHER SMITH **UNION OIL COMPANY OF CALIFORNIA** ATTN: REVENUE ACCOUNTING

GOBERNADOR #6 WI/ORRI/NRI OWNERS MAILING LIST (CONTINUED)

L. DORIS WILLIAMS TRUST, WILLIAM P. TRAYLOR
~& JOHN G. HEARD, TRUSTEES
B. WYNNE WOOLLEY JR. & DAVID MARTIN WOOLLEY
CO-TRST OF THE B WYNNE WOOLLEY JR TRUST
U/W/O LOTTIE PLUMMER WOOLLEY
DAVID MARTIN WOOLLEY & B. WYNNE WOOLLEY JR
~CO-TRUST OF THE DAVID MARTIN WOOLLEY TRUST
U/W/O LOTTIE PLUMMER WOOLLEY

GOBERNADOR #6 OFFSET OWNERS MAILING LIST

TEXAKOMA OIL & GAS COMPANY ONE LINCOLN CENTRE 5400 LBJ FREEWAY, SUITE 500 DALLAS TX 75240-6236

BURLINGTON RESOURCES OIL & GAS COMPANY P O BOX 4289 FARMINGTON NM 87499-4289